HSIAO-CHING "KELLY" SU

+1 (470)685-5133 | yoyo420303@gmail.com | CApopsicle | hsiaochingsu | capopsicle.github.io | Seattle, Washington

EDUCATION

Georgia Institute of Technology - Atlanta, GA   Aug. 2018 - May 2020
- Master of Science in Computer Science, Human-Computer Interaction Specialization; GPA: 3.5/4.0
- Courses: Information Visualization, Computational Photography, Principles of UI Software, ML, Design & Analysis: Algorithms, Computer Graphics
- Taught Information Visualization course (CS4460), gave live coding lectures about D3.js, graded assignments, and held office hours

National Taiwan University (NTU) - Taipei, Taiwan   Sep. 2012 - Jun. 2016
- Bachelor of Business Administration in Information Management; GPA: 3.43/4.0
- Courses: Programming Languages, Programming Design & Data Structures, Fundamental OOP, Operating Systems, UX Design

EXPERIENCE

The Climate Corporation - Software Engineer - Seattle, WA   Jul. 2020 - Present
- Led new testing framework migration by configuring and implementing tests in two frameworks, building CICD pipeline, and evaluating five frameworks
- Used React frontend and Salesforce Apex backend to incorporate new tax operating model into checkout flow; built new subscription flows for commercial campaigns
- Maintained team's test repository by collaborating with other teams to fix testing dependencies and serving as owner for code reviews
- Proposed strategy to improve test reliability and coverage; developed plan to remove external dependency to improve stability and flakiness

The Climate Corporation - Software Engineer Intern - San Francisco, CA   May 2019 - Aug. 2019
- Implemented end-to-end tests for shopping cart and checkout flow using webdriverio; completed unit test coverage with Jest
- Built end-to-end testing project from scratch for knowledge base web app and incorporated automated test runs into CICD pipeline
- Developed testing metrics and notifications on Jenkins and Slack using Bash, which became an essential reporting tool for the team

21 Vianet Group Inc. - Front-End Engineer - Taipei, Taiwan   Jul. 2016 - Jun. 2017
- Developed a monitoring platform to collect data from endpoint machines, raise alarm messages, and group and filter entities
- Built visualization tools for CDN infrastructure metrics to help operation engineers monitor entities and investigate alerts
- Created open-source Vue.js UI components with >95% code coverage using Jest; ○ vue-owl-ui
- Mentored junior colleague on front-end and JavaScript development skills to contribute new UI components

MediaTek - Software Engineer Intern - Taipei, Taiwan   Jul. 2015 - Aug. 2015
- Developed internal tool to dynamically modify MediaTek Cloud Sandbox (MCS) pages; wrote tutorials to connect microcontrollers to MCS

SOFTWARE ENGINEERING SKILLS

- Programming languages: JavaScript, Python, Java, Apex
- Frameworks & tools: React, Redux, Vue, D3.js, Node.js, Jest, Webpack, Java Swing, Android, SQL, OpenCV, OpenGL, Selenium, Jenkins, git
- Software: Illustrator, Photoshop, Adobe XD, Sketch, Tableau

PROJECTS

Bimanual Interactions for Tablet Note-Taking App - Atlanta, GA - ▣ NoteTakingApp   Aug. 2019 - Dec. 2019
- Defined bimanual interactions for note-taking app on Android tablets to allow the non-dominant hand to perform touch commands
- Implemented thumb tool menu for non-dominant hand; pen, eraser, and selection tools; multi-touch commands; and bimanual copy and paste

Texture Synthesis - Atlanta, GA - ⊙ Texture-Synthesis   Jan. 2019
- Created a web applet to generate a texture from an input image to fill larger dimensions using OpenProcessing and OpenCV
- Implemented feature to add randomness to the output image to make the synthesis look more natural

Movie Dialogues Visualization - Atlanta, GA - ○ movie-dialogues; ▣ KeepItReal   Aug. 2018 - Dec. 2018
- Created a visualization tool to let users explore conversation ratios between sexes and conversational themes across decades and genres
- Preprocessed data using Python, generated questions and hypotheses about the dataset, and verified them with Tableau
- Rated as one of the top projects in class and became a model for the professor's future classes

Hack The Library - Taipei, Taiwan - ○ NTU-Library; ▣ HackTheLibrary   Feb. 2015 - Dec. 2015
- Designed and developed an intuitive and informative map view UI for the library study area's seat arrangement system with D3.js and SVG
- Conducted user research, including interviewing users and collecting and analyzing 700+ questionnaires